BROCCOLI, FALL FRESH MARKET, TRICKLE IRRIGATED Kentucky Estimated <u>per Acre</u> Costs and Returns for 2022 Large Scale (5 or more acres trickle irrigated)* NOT TO BE CONSIDERED CROPPING RECOMMENDATIONS OR PROFITABILITY PROJECTIONS. FOR COMPARISON AND PLANNING PURPOSES ONLY.



| | Quantity | Unit | \$/Unit | Total | | |
|--|----------|---|---------------------|---|--------|------------------------------|
| GROSS RETURNS | | | | | | |
| Broccoli (20-23 lb box) | 450 | boxes | \$ 16.00 | \$ 7,200.00 | a,b | Boxes harvested & packe 4.16 |
| • | | | | \$ - | | · |
| Total Returns | | | | \$ 7,200.00 | | |
| | | | | , , | | |
| VARIABLE COSTS | | | | | | Your Numbers |
| Production | | | | | | Tour Numbers |
| Broccoli Transplants | 15.0 | thousand | \$ 45.00 | \$ 675.00 | | |
| N Fertilizer: Urea | 100 | | \$ 0.40 | \$ 40.00 | | |
| Starter Fertilizer | | lbs | \$ 0.75 | | | |
| N Fertilizer: Fertigation (Calcium Nitrate) | 645 | | \$ 0.60 | \$ 387.00 | g | |
| Plastic Mulch | | acre | \$435.00 | \$ 435.00 | 9 | |
| Drip Lines & Irrigation Fittings | | acre | \$495.00 | \$ 495.00 | | |
| Herbicides | | acre | \$ 19.00 | \$ 19.00 | Ч | |
| Insecticides | | acre | \$ 81.86 | \$ 81.86 | | |
| Fungicides | | acre | \$ 22.95 | \$ 22.95 | d | |
| Irrigation | | acre | \$ 65.00 | \$ 65.00 | - | |
| Hired Labor (Planting) | | hrs. | \$ 16.50 | \$ 412.50 | | |
| Machinery Variable Costs | | acre | \$ 57.76 | \$ 57.76 | е | |
| Total Preharvest Variable Costs | | 4010 | Ψ 01.10 | \$ 2,739.82 | | |
| | | | | V 2,1 00.02 | | |
| HADVESTING AND MADVETING | | | | | | |
| HARVESTING AND MARKETING Plastic Disposal | 24 | hours | \$ 16.50 | \$ 396.00 | | |
| Harvest and Pack | | boxes | \$ 16.50 \$ 3.97 | | £ | |
| Ice and Cooling | 2,100 | | \$ 0.10 | \$ 1,784.86 \$ 210.00 | T | |
| Boxes | | boxes | \$ 1.40 | \$ 630.00 | | |
| Marketing Costs (10% of Gross) | 10.0% | | φ 1.4U | \$ 720.00 | | |
| Marketing Costs (10 % of Gloss) | 10.0 /6 | gioss | | ψ 120.00 | | |
| | | | | | | |
| Total Harvesting and Marketing Cost | | | | \$ 3,740.86 | | |
| Total Harrocang and markotang coot | | | | + + + + + + + + + + + + + + + + + + + | | |
| Interest on Variable Costs | | | | \$ 138.31 | | |
| The section of the se | | | | + 100.01 | | |
| TOTAL VARIABLE COST | | | | \$ 6,618.98 | | |
| | | | | - | | |
| RETURN ABOVE VARIABLE COSTS | | | | \$ 581.02 | | |
| | | | | Ţ OUTIGE | | |
| FIXED COSTS | | | | | | |
| Machinery and Equipment | | | | \$ 100.81 | _ | |
| Irrigation System Capital Recovery | | | | \$ 481.09 | e C | |
| Taxes on Land | | | | \$ 461.09 | C | |
| Insurance | | | | \$ 66.19 | | |
| ilisulance | | | | φ 00.19 | | |
| TOTAL FIXED COSTS | | | | \$ 653.09 | | |
| TOTAL FIXED COSTS | | | | \$ 055.0 9 | | |
| TOTAL EXPENSES | | | | \$ 7,272.07 | | |
| TO THE EXILENCE | | | | Ψ1,212.01 | | |
| RETURN TO OPERATOR LABOR, LAND, | CAPITAI | & MGT | | \$ (72.07) | | |
| TELEVISION ENDON, EARD, | JAI IIA | <u>_, </u> | | ψ (12.01) | | |
| Operator Labor (machinery and irrigation) | 20 | hrs. | \$ 16.50 | \$ 330.00 | | |
| epotator Eabor (maorimory and imgation) | 20 | 1110. | ψ 10.00 | ψ 000.00 | | |
| RETURN TO LAND, CAPITAL, AND MANA | GEMEN | <u>. </u> | | \$ (402.07) | | |
| TE TOTAL TO EATE, OAI TIAL, AID MAIL | .JEIIII | • | | ψ (- 02.01) | l | |

- a Yields based on prior UK budget yield assumption.
- b Price based on 2022 wholesale and terminal market prices
- c Fuel and power for irrigation system. Assumes established well or water source. Depreciation fixed costs in capital recovery line.
- d Pesticide costs based on recommended applications of various products using 2022 product costs.
- e Machinery costs generator (ISU, 2002) using updated fuel, purchase price and replacement cost estimates 2022.
- f Updates past harvest and packing cost assumptions and compares to recently published university budget assumptions.
- g Fertilizer assumption: 64.5 lbs calcium nitrate per week per acre.
- * Farm has 5 or more acres total in trickle-irrigated crops